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(54) **MOBILE PHONE APPLICATION FOR
DIABETES CARE WITH MEDICAL
FEATURE ACTIVATION**

(58) **Field of Classification Search**

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G06F 2221/2137; G06F 2221/2151; G06F
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References Cited

U.S. PATENT DOCUMENTS

7,231,549 B1 * 6/2007 Rhea G06F 11/2294
714/25
8,577,334 B1 * 11/2013 Smith H04W 12/08
455/410

(Continued)

FOREIGN PATENT DOCUMENTS

WO 2009/071188 A1 6/2009

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ABSTRACT

A method for activating a physician-prescribable feature of an application program executed on a mobile device is disclosed. The method includes receiving, by the application program, an activation code to activate a feature of the application program and one or more parameters associated with a prescription. The method includes transmitting, by the application program, the activation code to a server and receiving an authorization code from the server, where the authorization code indicates a validity of the activation code. The method includes activating, by the application program, the feature using the activation code, the activation being performed in response to the activation code being valid; configuring, by the application program, the activated feature using at least one of the one or more parameters associated with the prescription; and generating, using the activated feature, data based on the one or more parameters associated with the prescription.

16 Claims, 9 Drawing Sheets

